

**IN THE TITLE:**

Please amend the title to read "OPTICAL FIBERS OR OTHER ~~WAVEGUIDES~~  
HAVING ONE OR MORE MODELED TAP STRUCTURES FOR FORMING DESIRED  
ILLUMINATION PATTERNS AND METHOD OF MAKING THE SAME"

**IN THE SPECIFICATION:**

Please amend the specification by replacing paragraphs as follows:

**A. Specification Paragraphs With Mark-ups to Show Changes Made**

The following are mark-ups to show changes made to the paragraphs starting at  
page 8, lines 1-4:

[Figure 14 is a schematic drawing of an experimental set-up for tap fabrication according  
to the invention;]

Figure [14A] 14 is a scanning electron micrograph (SEM) of an approximately 10° tap  
structure;

The following are mark-ups to show changes made to the paragraph at page 21,  
lines 7-12:

Figure 13 is a schematic drawing of a hydroponic plant lighting system according to an  
embodiment of the invention. A frame 100 supports plants 115. The frame may also support  
optical fibers 110. The optical fibers 110 are provided with tap structures that allow light to be  
tapped out of the optical fibers 110 in the pattern of a cone 120. Light is provided to the optical

fibers via a light source 125, in this example an SDL Array; however, other light sources may be utilized. The hydroponic plant lighting system of Figure 13 also includes a controller 120 and power supply and cooling device 135.

**B. Clean Specification Changes**

**Please replace the paragraphs starting at page 8, lines 1-4 with the following paragraph:**

A2 Figure 14 is a scanning electron micrograph (SEM) of an approximately 10° tap structure;

**Please replace the paragraph at page 21, lines 7-12 with the following paragraph:**

A3 Figure 13 is a schematic drawing of a hydroponic plant lighting system according to an embodiment of the invention. A frame 100 supports plants 115. The frame may also support optical fibers 110. The optical fibers 110 are provided with tap structures that allow light to be tapped out of the optical fibers 110 in the pattern of a cone 120. Light is provided to the optical fibers via a light source 125, in this example an SDL Array; however, other light sources may be utilized. The hydroponic plant lighting system of Figure 13 also includes a controller 120 and power supply and cooling device 135.